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May patent application

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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In re application of: WALTER J. DOBROGOSZ AND SVEN E. LINDGREN

U.S. Application No.: 08/476 630

"ANTIBIOTIC REUTERIN"

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Title:

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INFORMATION DISCLOSURE STATEMENT

Commissioner of Patents and Trademarks Assistant Commissioner for Patents Washington, D.C. 20231

Sir:

Applicant submits herewith references, publications, and/or information of which he is aware, which he believes may be material to the examination of this application and in respect of which there may be a duty to disclose in accordance with 37 CFR 1.56. The attached Information Disclosure Statements are photocopies of the Information Disclosure Statements filed in the parent applications of this application.

While this Information Disclosure Statement may refer to information which may be "material" pursuant to 37 CFR 1.56, it

is not intended to constitute an admission that any reference, publication, and/or information referred to herein is "prior art" for this invention unless specifically identified as such.

Copies of the references listed in the attached copies are are enclosed. For the convenience of the Examiner, a copy of each originally filed form PTO FB-A820 is also enclosed.

In addition, set forth below is a list of references and publications, identified in compliance with 37 CFR 1.198(a).

- (1) <u>Reference AA</u>: U.S. Patent No. 3,984,575 of Farr entitled "Bacterial COmpositions for Changing the Digestive System Bacteria in Animals" issued 10/5/76.
- (2) <u>Reference AB</u>: U.S. Patent No. 4,048,299 of Litchfield et al. entitled "Anticaries Confectionaries and Oral Health Products" issued 9/13/77.
- (3) Reference AC: U.S. Patent No. 4,335,107 of Snoeyenbos et al. entitled "Mixture to PRotect Poultry from Salmonella" issued 6/15/82.
- (4) Reference AD: U.S. Patent No. 4,518,696 of Gehrman et al. entitled "Stabilized Liquid Bacterial Suspension for Oral Administration to Animals" issued 5/21/85.
- (5) <u>Reference AE</u>: U.S. Patent No. 4,689,226 of Nurmi et al. entitled "Process for the Production of a Bacterial Preparation for the Prophylaxis of Intestinal Disturbances in Poultry" issued 8/25/87.
- (6) Reference AF: U.S. Patent No. 4,710,379 of Kawai et al. entitled "Intestinal Microflora-improving Agent, issued 12/1/87.

- (7) Reference AL: Japanese patent abstract of Kawai, #190707 of 9/1985.
- (8) <u>Reference AM</u>: Japanese patent abstract of Yokokura, #275217, of 12/1986.
- (9) Reference BA: Axelsson, L. et al., "Characterization and DNA Homology of Lactobacillus Strains Isolated from Pig Intestine", J. Appl. Bacteriol. 62:433-440, 1987.
- (10) Reference BB: Axelsson, L et al., "Production of a Broad Spectrum Antimicrobial Substance by Lactobacillus reuteri", Microbial Ecology in Health and Disease 2:131-136, 1989.
- (11) <u>Reference BC</u>: Chung, TC et al., "In vitro Studies on Reuterin Synthesis by Lactobacillus reuteri", Microbial Ecology in Health and Disease 2:137-144, 1989.
- (12) <u>Reference BD</u>: Daeschel, MA, "Antimicrobial Substances from Lactic Acid Bacteria for Use as Food Preservatives", Food Tech. 43: 164-167, 1989.
- (13) <u>Reference BE</u>: Dobrogosz, WJ et al., "Delivery of Viable Lactobacillus reuteri to the Gastrointestinal Tract of Poultry", research report presented at Southern Poultry Science Society Meeting, January 28-29, 1991, Atlanta, Georgia.
- (14) <u>Reference BF</u>: Dobrogosz, WJ et al., "Lactobacillus reuteri and the Enteric Microbiota", <u>in Regulatory and Protective Role of the Normal Microflora</u>, from the Gustafsen Symposium, McMillan Ltd, 1989, pages 283-292.
- (15) Reference BG: Edens, FW et al., "Lactobacillus reuteri and Whey Reduce Salmonella Colonization in the Ceca of Turkey

Poults", research report presented at Southern Poultry Science Society Meeting, January 28-29, 1991, Atlanta, Georgia.

- (16) Reference BH: Francis, C et al., "Interrelationship of Lactobacillus and Zinc Bacitracin in the Diets of Turkey Poults", Poultry Sci. 57:1687-1689, 1978.
- (17) <u>Reference BI</u>: Fuller, R, "Probiotics", J. Appl. Bacteriol. Symp. Supp. 1986, IS-7S.
- (18) Reference BJ: Gerhardt, P et al., Manual of Methods for General Bacteriology, 1981, page 120.
- (19) Reference BK: Kandler, O et al., "Regular, Nonsporing Gram-Positive Rods", in Sneath, PHA et al., Bergey's Manual of Systematic Bacteriology, vol. 2, 1986, Williams & Wilkins.
- (20) <u>Reference BL</u>: Klaenhammer, TR, "Microbiological Considerations in Selection and Preparation of Lactobacillus Strains for Use as Dietary Adjuncts", Dairy Sci. 65:1339-1349, 1982.
- (21) <u>Reference BM</u>: Parkhurst, CR et al., "Lactobacillus reuteri and Dietary Whey Effect on Twenty Day Body Weights of Turkey Poults Subjected to Either COld or Low Protein Stress", research report presented at Southern Poultry Science Society Meeting, January 28-29, 1991, Atlanta, Georgia.
- (22) <u>Reference BM</u>: Snoeyenbos, GH et al., "Protecting Chicks and Poults from Salmonellae by Oral Administration of "Normal" Gut Microflora", Avian Dis. 22:273-287, 1978.
- (23) <u>Reference BN</u>: Talarico, TL et al., "Chemical Characterization of an Antimicrobial Substance Produced by



Lactobacillus reuteri", Antimicrobial Agents and Chemotherapy 33:674-679, 1989.

Copies of the foregoing references (1)-(23) are enclosed. For the convenience of the Examiner, a form PTO FB-A820 is also enclosed.

Respectfully submitted,

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